



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/534,718

01/13/2006

Jose Reyes

JJI.P.001US

5606

55701

7590

09/30/2008

EDWIN A. SISSON , ATTORNEY AT LAW , LLC

P.O. BOX 603

SHARON CENTER, OH 44274-0603

EXAMINER

SANDERS, KRIELLION ANTONETTE

ART UNIT

PAPER NUMBER

1796

MAIL DATE

DELIVERY MODE

09/30/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/534,718	Applicant(s) REYES, JOSE	
	Examiner Kriellion A. Sanders	Art Unit 1796	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 June 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 106-117 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 106-117 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 106-117 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keogh et al, US Pre Grant Patent Publication No. 2002/0098357 in view of Breant, US Patent No. 6,025,423, Wesch et al, US Patent No. 4,762,746 and Maurer et al, US Patent No. 4,515,632.

Keogh discloses a fire resistant and thermal insulative cable wrap comprising a supportive substrate coated or impregnated with an intumescent material and optionally a layer of a ceramic coating. Application of said wrap in cable construction permits use of the lowest cost, highest performance cable components, namely, polyolefin resins as insulation and non-halogen flame retarded polyolefins as the jacket material. See paragraph [0012].

Keogh et al further teaches the technology of developing a fire resistant and thermal insulative cable wrap that comprises a supportive substrate coated or impregnated with an intumescent material. Application of said wrap in cable construction permits use of the lowest cost, highest performance cable components, namely, polyolefin resins as insulation and non-

Art Unit: 1796

halogen flame retarded polyolefins as the jacket material. The intumescent coating is comprised of a thermosetting resin binder system of from about 5 parts to about 100 parts by weight of said intumescent material per 100 parts of said thermosetting resin. The intumescent material is Maxichar Activated Phosphate blend or Fyrol MP Melamine Phosphate or AC-2 Melamine Pyrophosphate alone or admixed with about an equal quantity of melamine resin. See paragraphs [0030] to [0042].

Cable compositions developed from polyamides and polyolefins are known in the art as disclosed by Breant. Flame retardant additives may be introduced into the cables. These may be intumescent systems which contain polyols, such as, for example, pentaerythritol, and products carrying nitrogen containing or phosphorus-containing functional groups, such as, for example, ammonium polyphosphate or melamine cyanurate. See col. 2, lines 50- 67, col. 4, line 53 through col. 5, line 15 and col. 6, lines 61-67.

Wesch et al. discloses a fire resistant fire-retarding laminate including foaming-agent layers combined with at least one restricting layer, which restrains expansion of the foaming-agent layer under heat and fire exposure and wherein said foaming agent layer may include epoxy resin and activated ammonium polyphosphate. The restricting layer may additionally include unactivated ammonium polyphosphate. See col. 1, lines 38-60, Example 1, col. 6, line 24 and the 5th line from the bottom lines and claims 1 and 8.

Maurer et al discloses activated ammonium polyphosphate and coating compositions capable of forming heat insulating layers comprising vinyl polymers and activated ammonium polyphosphate The activated ammonium polyphosphate is obtained by reacting it with melamine

Art Unit: 1796

and/or dicyandiamide or their derivatives at 100 degree to 200 degree C. and undergoes decomposition at an increased rate at temperatures within the range 300 degree to 600 degree C. Melamine is used in conjunction with the activated ammonium polyphosphate. See col. 1, lines 5-31 and Example 8.

The compositions of Keogh, Wesch et al and Maurer et al comprise the same components as the presently claimed invention. Because a component and its properties are inseparable, the compositions of Wesch et al and Maurer et al are expected to possess UL-94 ratings of V-0 or V-1.

Formulation of compositions in the manner disclosed by any of the references with the expectation of achieving UL ratings of V-0 or V-1 would have been obvious to one of ordinary skill in the art at the time of applicant's invention.

Response to Arguments

1. Applicant's arguments filed 6/19/2008 have been fully considered but they are not persuasive.
2. Contrary to applicant's arguments, non-halogenated polyolefin compositions having intumescent melamine flame retardants dispersed in the polyolefins are known as taught by Keogh.
3. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Art Unit: 1796

Although applicant has removed reference to activated flame retardants in the claims, references to Wesch et al and Maurer et al are retained since applicant referred to activated flame retardants in the original disclosure and claims.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kriellion A. Sanders whose telephone number is 571-272-1122. The examiner can normally be reached on Monday through Thursday 8:30am-7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kriellion A. Sanders/

Primary Examiner, Art Unit 1796

Kriellion A. Sanders
Primary Examiner
Art Unit 1796

ks